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FORM PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)	Docket Number (Optional) 872.0034USU	Application Number Not Yet Assigned
Applicant Haapoja et al.		
Filing Date March 7, 2001		Group Art Unit Not Yet Assigned

1c600 U.S. PTO
 09/801433
 0370701

U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,220,818	9/2/80	Kahn	179	1 GS	
	4,914,408	4/3/90	Voorman	333	167	
	5,983,081	11/9/99	Lehtinen	455	76	
	6,115,593	9/5/00	Alinikula et al.	455	324	
	6,081,697	6/27/00	Haartsen	455	109	
	4,241,451	12/23/80	Maixner et al.	455	202	
	5,896,562	4/20/99	Heinonen	455	76	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
	EP 0938 208	8/25/99	Europe	H04L	5/02	X	
	EP 0715 403	6/5/96	Europe	H03D	7/16	X	

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER 	DATE CONSIDERED 02/05/04
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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**INFORMATION DISCLOSURE
CITATION FORM FOR
PATENT APPLICATION
(FORM PTO-1449)
(Substitute)**

Docket No.: 872.0034USU

Serial No.: 09/801433

Applicant(s): Sami Haapoja et al.

Filing Date: 03/07/01

Group: 2681

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number (Number-Kind Code)	Publication Date (MM-DD-YYYY)	Name of Patentee or Applicant	Class	Sub-class
JR JR	US-6009317	12/28/1999	Wynn	H04B	1/10
	US-6219534B1	04/17/2001	Torii	H04B	1/10
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Examiner Initials	Document Number (Country Code-Number-Kind Code)	Publication Date (MM-DD-YYYY)	Name Of Patentee of Applicant	Translation? Yes/No/n/a
JR	WO-99/14863-A1	03/25/1999	Italtel S.P.A.	
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OTHER DOCUMENTS (Author (Capitalize), Title, Date, Pages, Etc., if known)

JR	Patent Abstracts of Japan, Toshiba Corp., Pub. No. 11234150, Pub. Date 08/27/99
	R GREEN&R HOSKING, Electronics World (1/96), High Performance Direct Conversion

Examiner's Signature: 

Date Considered: 02/18/04

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